

KOULSON, K. [Coulson, C.A.]

Interatomic forces: Maxwell to Schrödinger. Usp. fiz. nauk 81  
no.3:545-556 N '63. (MIRA 16:12)

KOUMAR, Frantisek, promovany pravnik

The diagram of railroad transportation and the maintenance of the rail  
track. Zel dop tech 10 no.7:194-195 '62.

KOUMAR, Frantisek, promovany pravnik

Specifying the trains in a railroad transportation diagram.  
Zelez dop tech 10 no.12:355-156 '62.

KOUMAR, Frantisek, promovany pravnik

New system of regulations for railroad transportation. Zel dop tech  
10 no.10:291-292 '62.

KOUMAR, Frantisek, promovany pravnik

Transit traffic and the Czechoslovak Railways. Zel dop tech  
ll no.3:61-62 '63.

KOUMAR, Frantisek, promovany pravnik

Problems of international railroad transportation. Zel dop  
tech 11 no.11:318-319 '63.

KOUMAR, Frantisek, promoveny pravnik

Problems of the railroad traffic regulations. Zel dop tech  
12 no. 2:31-32 '64

KOUMAR, Fr., promovany pravnik

Foreign exchange management of the Czechoslovak State Railroads.  
Zel dop tech 12 no.8:197-198 '64.

KOUMAR, Ludvik, inz.

Biochemical degradation of pure organic substances. Vodni  
hosp 14 no. 4:143-145 '64.

1. Hydropunkt, Praha.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3  
ACC NR: AP7003629 SOURCE CODE: CZ/0065/667000/008/050970520

AUTHOR: Habrovec, Frantisek; Kounicky, Jan; Rys, Premysl; Skarek, Jiri

ORG: Institute of Metal Properties, CSAV, (Ustav vlastnosti kovu CSAV)

TITLE: Nature of the refining of Fe-Ni-C alloy martensite by repeated austenitizing

SOURCE: Kovove materialy, no. 6, 1966, 505-518

TOPIC TAGS: high nickel steel, steel mechanical proeprty, steel heat treatment,  
martensite, austenitic steel, tensile strength, yield stress, elongation

ABSTRACT: A series of experiments has been performed to determine the effect of  
repeated austenitizing with rapid heating on the mechanical properties and the  
morphology of martensite of a nickel steel (0.42% carbon and 24.5% nickel;  $M_3$   
temperature—36°C). Steel specimens 1.7 mm thick, 3.4 mm wide, and 80 mm long were  
austenitized at 1050°C for 30 min, quenched in liquid nitrogen, reheated by passing  
electric current for various periods of time (to reach a certain temperature which,  
however, was not measured directly), water quenched and refrigerated in liquid  
nitrogen for 1.5 hr. The dependence of mechanical properties on the power consumed  
for reheating (i.e., the austenitizing temperature) was found to follow a complex  
pattern (see Fig. 1). The best combination of properties, a tensile strength of  
almost 200 kp/mm<sup>2</sup>, a yield strength of about 160 kg/mm<sup>2</sup>, a yield strength of about  
160 kg/mm<sup>2</sup> and an elongation of about 9%, was obtained at a power consumption of  
1000 w. The structure of the alloy treated under these conditions consisted mainly of  
a fine acicular martensite. With increasing power consumption, the acicular martensite

ACC NR: AP7003629

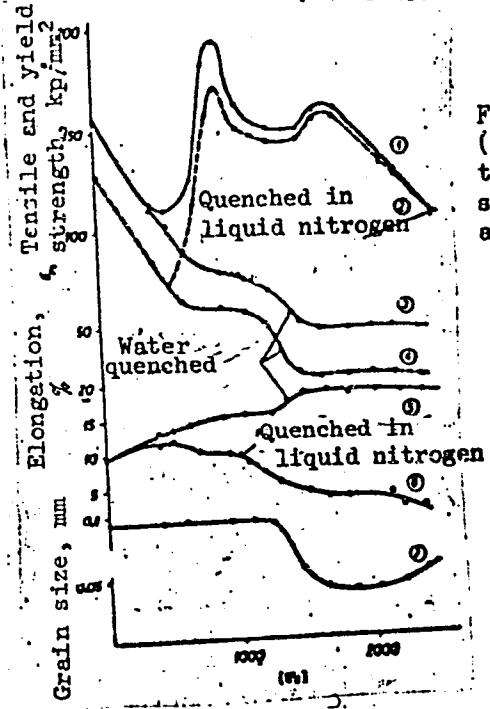


Fig. 1. Dependence of tensile strength (1, 3), yield strength (2, 4), elongation (5, 6) and grain size of the nickel steel on the power consumption for re-austenitizing

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is gradually replaced by lamellar martensite, which has lower strength and ductility (second maximum on curve 1). Orig. art. has: 14 figures.

SUB CODE: 11, 13/ SUBM DATE: 17May66/ ORIG REF: 008/ OTH REF: 010/

Card 3/3

KOZESNIK, Jaroslav, akademik; BLASKOVIC, Dionyz, akademik; KOIMAN, Arnost, akademik; MACURA, Jiri, dr., VANA, Josef; GOSIOROVSKY, Milos; BOHM, Jaroslav, akademik; PROCHAZKA, Jaroslav, prof., dr.; HAMPEJS, Zdenek, dr.; BRABEC, Frantisek, prof, inz., dr.; SORM, Frantisek, akademik; NOVAK, Josef, akademik; NEUMANN, Jaromir, doc., dr.; BAZANT, Vladimir, inz., dr.; KOUNOVSKY, Bohumil, dr.; SZANTO, Jan, dr.; ROZSIVAL, Miroslav, dr.; KASPAR, Jan, dr.; HANKA, Ladislav, prof., inz.; STRNAD, Julius; WICHTERLE, Otto, akademik; ZATOPEK, Alois; JAVORNICKY, Jan, inz.; VAVRA, Jaroslav, dr.; BLATTNY, Ctibor, akademik; ONDRIS, Karol, dr.; KUKAL, Vaclav, inz.

The 22d Congress of the Communist Party of the Soviet Union and the tasks of Czechoslovak science; discussion. Vestnik CSAV 71 no.1:3-59 '62.

1. Hlavni vedecky sekretar Ceskoslovenske akademie ved (for Kozeznik).
2. Clen korespondent Ceskoslovenske akademie ved (for Vana, Gosiorovsky, Kaspar, Strnad, Zatopek). 3. Rektor Karlovy university (for Prochazka).
4. Rektor Ceskeho vysokeho ucení technickeho (for Brabec). 5. Namestek presidenta Ceskoslovenske akademie ved (for Sorm)

KOUNOVSKY, JOSEF.

Deskriptivni geometrie; celostatni vysokoskolska ucebnice. (5 vyd.)

Praha, Czechoslovakia, Nakl. Ceskoslovenske skademie ved. 1959. 547 p.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959  
Uncl.

## EXCERPTA MEDICA Sec 15 Vol. 10/9 Chest Diseases Sept 57

2331. KOUPIL M. Otorhinolaryngol. Klin. PU, Olomouc. \*Stručný přehled vývoje léčení tbc hrtanu a naše výsledky. Short review of the development of laryngeal tb and personal results BRATISLAVSKÉ LÉKÁRS LÍSTY 1956, 36/8 (480-485)

Old and modern treatment of laryngeal tb is reviewed on the basis of the world literature. The therapeutic results in laryngeal tb obtained at the ORL clinic of the Palacky University in Olomouc are reported. During the time from 1949 to the end of 1954, 33 patients with tb of the larynx were admitted, and, after examination, 5 of them were referred to the lung department for further treatment. The remaining 28 patients, 17 men and 11 women, were treated with streptomycin and PAS. The daily dose was mostly 0.5 g. streptomycin and 12 g. PAS. Vestibular disturbances were not observed at all. In all patients, the dysphagic disturbances disappeared. 12 patients got rid of their dysphonia. The total amount of streptomycin administered was between 15 and 125 g., the mean quantity was 48 g. 11 patients (39.3%) were cured, 13 (46.5%) improved, in 2 patients (6%), there was no improvement, and 2 (6%) had a recurrence.

(XI, 15)

KCUPIL, Z., inz.

Influence of the addition of basic granulated blast furnace  
slag on hydration of cements from Portland clinkers. Stavivo  
41 no.11: 396-399 N°63.

1. Vyzkumny ustav stavebnich hmot, Brno.

KOUPIL, Z.

Problems of transporting loose cement. p. 175.  
STAVIVO, Praha, Vol. 33, no. 5, May 1955.

SO: Monthly List of East European Acquisitions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

COUNTRY : Czechoslovakia  
**APPROVED FOR RELEASE: 08/23/2000** H-13 CIA-RDP86-00513R000825420016-3

ABS. JOUR. : RZKhimi, No. 1959, No. 87378

AUTHOR : Koupil, Z.

INST. :

TITLE : Special Fast-Hardening Cements for the  
Manufacture of Sectional Construction Parts

ORIG. PUB. : Stavivo, 1959, 37, No 2, 45-47

ABSTRACT : Investigations conducted at the Scientific Research Institute of Building Materials (Brno), have shown that by careful regulation of mineralogical composition, and an increase of the degree of dispersion, it is possible to increase initial strength and produce fast hardening cements (FHC). CaO content of raw material must ensure formation of greatest possible amount of  $C_3S$ , but the sum  $(C_3S+C_2S)$  must not exceed 78-79% in order that the content of  $C_3A$  be of about 11-12%, the sum  $(C_3A+C_4AF)$  20-22%. With a content of particles of less than  $10\mu$  in an amount of 20% strength of cement (after 24 hours) is 84 kg/cm<sup>2</sup>, with 58% of particles of the above-stated size it is 277 kg/cm<sup>2</sup>.

CARD: 1/2

ABS. JOUR. : RZKhimi., No. 45-47

AUTHOR :

INST. :

KOURIK, Jindrich  
SURNAME, Given Name

Country: Czechoslovakia

Academic Degrees: not given

Affiliation: Stomatology Clinic, Head-Docent A. Edlan, (Stomatologicka klinika, prednosta docent dr. A. Edlan) Plzen.  
 First Surgical clinic, Head-Docent K. Domansky (I. chirurgicka klinika, prednosta docent dr. K. Domanski,) plzen.  
 Prague, Ceskoslovenska Stomatologie, Vol 61, No 5, Sep 1961;  
 pp 567-572.

Source: Dental Treatment of some Mentally Altered Persons under General  
 Data: Anaesthesia.

PISLOVA, Ruzena,  
 KOURIK, Jindrich,  
 SOBESKY, Ivo,

670 981643

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and  
 Their Application. Ceramics. Glass. Binders.  
 Concrete.

H-13

Abs Jour: Ref Zhur-Khim., No 13, 1958, 44046.

Author : Kouril A.

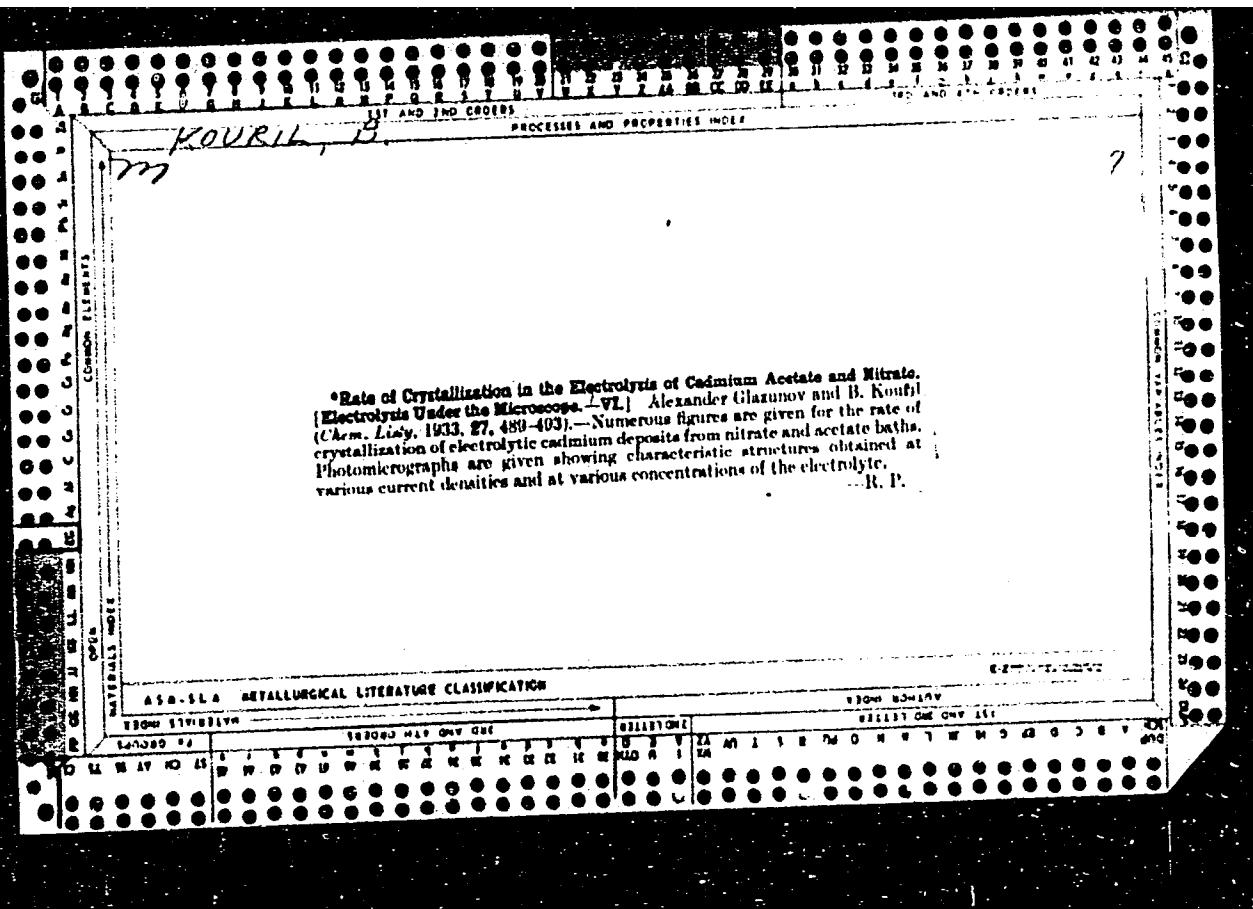
Inst :

Title : The Firing of Moravian Shale Clays.

Orig Pub: Stavivo, 1957, 35, No 11, 433-439.

Abstract: Moravian refractory shale clays (SC) are fired to chamotte for the production of refractories; their proportion in the chamotte being of about 60%. There are 5 types of Moravian SC; of these 3 types can be classified as bituminous shales since their heating value reaches 2000 kcal/kg; they can be fired to chamotte without an addition of fuel.

Card : 1/2



reduction of steel

KOURIL, B.

3

Surface Tears in Alloy Steels. B. Kouril. (Hunk)  
(Prague), 1953, 3, (8), 122-123. [In Czech.] A study of the  
formation of surface tears in structural and high-alloy steels  
showed that : (1) Long reducing periods in the electric furnace  
promote surface tears ; (2) A low sulphur content, probably  
only a symptom of excessive reduction in the furnace, was  
found in steels susceptible to this type of damage ; (3) When  
the heat time included a change of shift the number of rejects  
increased ; and (4) if the manganese fell below 0.25% with  
duplex steel, there was a tendency for longitudinal tears to  
form. In general, it was concluded that : (1) Stable steels, in-  
cluding low and medium carbon steels and austenitic stainless  
steels, can be removed from the ingot moulds while red hot  
and allowed to cool in air, but high alloy ferritic and chromium-  
aluminium steels must not be stripped so early ; (2)  
(3) the Cr-Mn, Cr-Mn-Mo, Cr-Ni-Cr-V-Mo, and Cr-Ni-V  
low alloy steels and the high-alloy tool steels are particularly  
sensitive to hot tears. - P. P.

L APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3

ACC NR: AP6020185 (A) SOURCE CODE: CZ/0078/66/000/002/0018/0018

AUTHOR: Kouril, Jaroslav (Nove Mesto nad Vahom)

39  
B

ORG: none

TITLE: Ultrasonic field with broken propagation path. CZ Pat. No. PV 102-65,  
Class 42

SOURCE: Vynalezy, no. 2, 1966, 18

TOPIC TAGS: ultrasonic field, ultrasonic radiation, acoustic reflection

ABSTRACT: A method of generating an ultrasonic field with a broken propagation  
path has been introduced. Ultrasonic radiation is incident on the wall of a vessel  
under a given angle and is reflected to the opposite wall. One point of the patent  
is itemized. [KP]

SUB CODE: 20 / SUBM DATE: 06Jan65 /

1.1950

24027

Z/031/61/009/002/007/008  
A205/A126AUTHOR: Kouřil, Jaroslav

TITLE: "UCJ 1" apparatus for ultrasonic cleaning in precision engineering

PERIODICAL: Strojirenská výroba, v. 9, no. 2, 1961, 96

TEXT: The "VÚMA" (Research Institute for Mechanization and Automation) in Nové Mesto nad Váhom produces on order "UCJ 1" semiautomatic ultrasonic cleaning apparatus for small parts of precision instruments. The cleaning installation (Fig. 1) has 6 stations with 5 tanks in circular arrangement, with a central feeding device. The parts to be cleaned are stored in wire baskets which are advanced from station to station and rotated in the tanks, filled with a cleaning solution. Cleaning periods can be adjusted from 3 - 100 sec. Parts are centrifuged between individual steps. The first station is for mechanical cleaning in an electrically heated bath, the second station is for ultrasonic cleaning in a bath with continuous exchange of cleaning solution, the third station is for washing and rinsing in filtrated cleaning solution, the fourth station is for spraying of parts with filtrated cleaning solution, the fifth station is for infrared drying or preservation of parts, and the sixth station is for exchange of baskets.

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24027

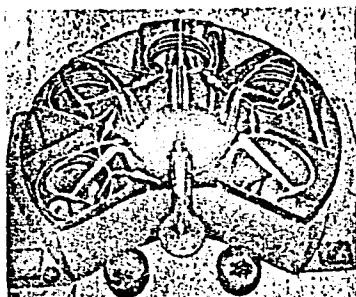
Z/031/61/009/002/007/008  
A205/A126

"UCJ 1" apparatus ...

Since volatile cleaning agents (trichloroethylene) are used, each tank has a cooling coil for vapor condensation. The base of the apparatus (Fig. 2) houses the hf generator which feeds a piezoelectric converter (applied for patent under File No. PV-4137/58), and 2 separated filtering stations. Additional data of the cleaning apparatus are: (floor space x height) 980 x 820 x 1,150 mm; maximum input 1,500 w; power supply 200 v/50 cps; total volume of cleaning solution 70 liters; basket dimensions 100 x 50 mm; ultrasonic output 100 - 130 w/800 cps; surface of ultrasonic converter 20 cm<sup>2</sup>.

ASSOCIATION: VÚMA (Research Institute for Mechanization and Automation) in Nové Mesto nad Váhom

Fig. 1: Cleaning installation



Card 2/3

SANDERA, Josaf, inz., C.Sc.; KOURIL, Oldrich, inz.

Sealed silver-zinc storage battery. Slaboproudý obzor 23  
no.6:327-332 Je '62.

1. Vysoké učení technické, Elektrotechnická fakulta,  
katedra elektrotechnologie, Brno.

ENGLISOVA, M.; ENGLIS, M.; KOURILEK, K.; MASEK, K.

Contribution to the isoenzyme diagnosis of myocardial infarct.  
Cas. lek. cesk. 103 no.34:942-944 21 Ag '64.

1. Oddeleni klinickych laboratori UVN v Praze-Stresovicich (nacelnik MUDr. M. Arient, CSc.) a Katedra klinicke biochemie UDL v Praze (vedouci MUDr. K. Masek, CSc.).

I-63926-65

ACCESSION NO: AF022674

CZ/0060/64/000/004/0185/0188 //

AUTHOR: Englisova, Milena (Doctor); Kourilek, Karel (Lieutenant Colonel, Doctor)

TITLE: Thermally stable and acetone-resistant fractions of lacto-dehydrogenase in diagnosis of myocardial infarct.

SOURCE: Vojenske zdravotnické listy, no. 4, 1964, 185-188

TOPIC TAGS: circulatory system disease, blood circulation, acetone

ABSTRACT: Determination of acetone-resistant fraction gives better results both as far as the importance of the changes is concerned and from the aspect of its being specific. Activity of the thermally resistant fraction averaged 68%, but was not characteristic for patients suffering from myocardial infarct; the acetone-resisting fraction, however, is specific. Orig. art. has 3 graphs and 1 table.

ASSOCIATION: Oddeleni klinickyx laboratori Ustredni vojenske nemocnice (Department of Clinical Laboratories, Central Military Hospital)

SUBMITTED: 00

ENCL: 00

STB CODE: 18

NO REF Sov: 000

OTHER: 013

JPRG

Card 1/1

VAKHTEGEYM, Yu. [Vachtenheim, J.]; VALNICHEK, S. [Valnicek, S.];  
SVOITKA, M. [Svojtka, M.]; Prinimala uchastiye: KOURILOVA, Z.

Specificity of LE cells. Vop.revm. 1 no.3:21-25 J1-S '61.  
(MIRA 16:4)

1. Iz Oblastnogo revmatologicheskogo tsentra (zav.  
Yu.Vakhtengeym), terapeuticheskogo otdeleniya (zav. V.Schmid)  
i Tsentral'noy laboratorii (zav. M.Svoitka), oblastnoy  
bol'nitsy (dir. L.Drlik) Iglavy, Chekhoslovatskaya Sotsialisti-  
cheskaya Respublika.

(PATHOLOGY, CELLULAR) (ARTHRITIS, RHEUMATOID)  
(LUPUS ERYTHEMATOSUS)

KOURIM, P.; ZIKMUND, J.

Syntheses of organic compounds marked by isotopes. IV. Preparation  
of serine( $1-^{14}\text{C}$ ) and cycloserine-( $3-^{14}\text{C}$ ). Coll Cz Chem 26 no.3:  
717-723 Mr '61. (EEAI '10:9)

I. Institut fur Kernforschung, Tschechoslovakische Akademie der  
Wissenschaften, Prag.

(Serine) (Cycloserine) (Carbon) (Radioisotopes)

KOURIM, P.; TYKVA, R.

Determining the products of methylcyclohexane oxidation with chromium  
(VI) oxide. Coll Cz Chem 26 no.10:2511-2518 O '61.

1. Institut fur Kernforschung und Institut fur organische Chemie und  
Biochemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

KOURIM, Pavel; VACEK, Karel

Spectrum EPR in the methylene group of deuterated  
polymethylmethacrylate after the radiation by gamma rays.  
Jaderna energie 9 no.4:124 Ap '63.

EXCERPTA MEDICA Sec. 7 Vol. 9/12 Dec. 55

KOUŘILOVÁ, Miluše

7)

2664. KOUŘILOVÁ M. Ušně a krční Odd. Krajské dětské nem., Brno.  
→Chrapaví děti. Snoring in children PRAKT. LÉK. 1954, 34/17  
(394-396)

Among the causes of snoring which are also of interest to the pediatrician, the following are mentioned: Vasomotor and hypertrophic rhinitis, septal deviations, nasal polyps, tumours, cicatricial stenoses of the nasal cavity, choanal atresia, hypertrophy of the tonsils and of the other adenoid tissue and finally also disturbances due to dental anomalies. The rhinological and the orthodontological treatment are discussed.

Mayerhofer - Zagreb (VII, 11)

KOURILOVA, Miluse

Growth of weight in children after tonsillectomy. Cesk. otolar.  
5 no.6:365-368 Dec 56.

1. Usni, nosni a krčni oddeleni krajške detske nemocnice v Brne.  
Primar MUDr. Miroslav Kucera.

(TONSILS, surg.

eff. on growth in child. (Cz))

(GROWTH, in inf. & child

eff. of tonsillectomy (Cz))

KOURILOVA, M.; ZEMANEK, R.

Eosinophilic granuloma of the temporal bone. Cesk. otolar. 9  
no.3:157-161 Je 1960.

l. Kratska detska nemocnice u Brne-Cernych Polich usni, krcni a  
nosni oddeleni, prednosta dr. M. Kucera, ustredu rentgenologicke  
oddeleni, prednosta dr. R. Zemanek.

(EOSINOPHILIC GRANULOMA case reports)  
(TEMPORAL BONE dis.)

KOURIM, J.

Delimited meningoaradiculomyelitis parotica affecting the conus medullaris with disorder of sensation and anorectal function in 6 year old girl. Cesk. pediat. 12 no.3:250-251 Mar 57.

1. OUNZ Rimavská Sobota, detske oddeleni, primar MUDr. Jozef Miklusica.

(MENINGITIS, in inf. & child

meningoaradiculomyelitis parotica affecting conus medullaris causing anorectal & sensation disord.  
(Cz))

(MYELITIS, in inf. & child  
same)

(SPINAL CORD, dis.

conus medullaris, caused by meningoaradiculomyelitis parotica & causing anorectal & sensation disord. in child (Cz))

(ANUS, dis.

anorectal, caused by meningoaradiculomyelitis parotica affecting conus medullaris in child (Cz))

(RECTUM, dis.

same)

(SENSATION

disord. in child, caused by meningoaradiculomyelitis parotica affecting conus medullaris (Cz))

KOURIM, Jan (OUNZ Rimavská Sobota (detske oddeleni)).

Thrombophlebitis of the superior sagittal sinus. Cesk. pediat. 14 no.4:  
303-312 5 Apr 59.

1. OUNZ Rimavská Sobota, detske oddeleni, prednosta MUDr. Jozef Miklusica.  
(CEREBRAL THROMBOSIS AND EMBOLISM, in inf. & child,  
thrombophlebitis of superior sagittal sinus (Cz))

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications.  
Pesticides.

H-18

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24569

Author : Farkas, J., Kourin, P., Sorn, F.  
Inst : -

Title : The Relationship between Chemical Structure and Insecticidal Activity of Pyrethroid Compounds. II. Analogues of Chrysanthemic Acid Containing Atoms of Chlorine in the Side Chain.

Orig Pub : Chem. listy, 1958, 52, No 4, 688-694

Abstract : For the purpose of investigating the relationship between the insecticidal activity and structure, cis-(Ia) and trans-2-( $\beta\beta$ -

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H-90

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications.  
APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3  
Pesticides.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24569

dichlorvinyl)-3,3-dimethylcyclopropane carbonic acids (Ib), and also ester of Ib and 2-allyl-3-methyl-4-oxy-2-cyclopentone (allylretrolon) (II) were synthesized. By the addition of  $CCl_4$  to 3-methylbutane-1 in the presence of benzoyl peroxide (23 hours in an autoclave at 90-95°) a 38 percent yield of 1,1,1,3-tetrachlor-4-methylpentane (III) of 80-82°/10 mm boiling point and  $1.4860 n^{20}_D$  was obtained. In the dehydrochlorination of alcohol solution of III with 1 mol of KOH (48 hours at 0°), 1,1,1-trichlor-4-methyl-

Card : 2/9

Products and Their Applications.  
Pesticides.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24569

heated for 4 hours at 100° in 80 ml CH<sub>3</sub>COOH and 15 ml of 20 percent HCl (acid), followed by pouring into water, extraction with petroleum ether, fractionation, yielding 10.5 g of viscous oil that has 100-110° /0.2 boiling point, which after mixing with 10 ml of n-hexane produces 7.46 g of Ia and Ib mixture of 60-65° melting point. By agitating 2.8 g of the preceding mixture in 20 ml of hexane, 0.85 g of Ib having 95-96.5° melting point (from hexane) are obtained. From mother liquors obtained after the separation of Ib, upon extended standing at -30°, 0.15 g

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3  
CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. H-18  
Pesticides.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24569

of Ia having 88-89° melting point (from hexane) are derived. By heating 0.277 g Ib with 1 ml SOCl<sub>2</sub> in 3 ml of n-hexane (1 hour on a steam bath), followed by dissolving of raw chloranhydride in 5 ml C<sub>6</sub>H<sub>6</sub>, addition of 0.2 g II, and 12 hours standing of the mixture, 0.2 g of a complex ester of Ib acid with II are obtained with the boiling point of 140-150/0.2 mm and n<sup>20</sup>D of 1.5274. In conducting comparison tests of insecticidal activities of Ib ester and II as against that of alletrine (on ordinary house flies), it has been established that substitution of methyl

Card : 8/9

CZECHOSLOVAKIA/Chemical Technology. Chemical  
Products and Their Applications.  
Pesticides.

H-18

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24570

Author : Farkas, J., Kourim, P., Sorm, F.  
Inst : -

Title : The Relationship between Chemical Structure  
and Industrial Activity of the Pyrethroid  
Compounds. II. Analogues of Chrysanthemic  
Acid Containing Aryl Group.

Orig Pub : Chem. listy, 1958, 52, No 4, 695-706

Abstract : By the condensation of diazoacetic ester  
with the substituted derivation of styrol,  
2-aryl-cyclopropane carbonic acids and the  
esters with alletronol (I) are obtained.

Card : 1/12

CZECHOSLOVAKIA/Chemical Technology. Chemical  
Products and Their Applications. H-18  
APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24570

In the comparison of insecticidal activities of these esters with those of alletronol, it was established that the substitution of iso-butylene in the chrysanthemic acid (II) for a phenyl group does not lead to the lowering of its activity. However, its activity is lowered when the phenyl group is being substituted. The presence of hemin CH<sub>3</sub>-groups in the cyclopropane ring of II is essential from the standpoint of insecticidal activity. The most effective of all the esters obtained are ( $\pm$ )-trans-2-phenyl-3-dimethylcyclopropanecarbonic acid

Card : 2/12

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. H-18  
Pesticides.

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24570

with the subsequent heating for 1/2 hour at 150°. The mixture of corresponding ethyl esters, isolated by vacuum distillation, is saponified by boiling for 3 hours with 20 percent water-alcohol solution of KOH (50 percent excess). From the mixture of stereoisomeric acids, after the addition of petroleum ether, the corresponding cis-acid in crystalline form (notations of cis- and trans-refer to corresponding positions of R<sub>1</sub> • C<sub>6</sub>H<sub>4</sub> and COOH groups) is usually separated. The non-crystallizing mixtures are converted (by means of 3 hour heating with SOCl<sub>2</sub>) into C<sub>6</sub>H<sub>6</sub>

Card : 7/12

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. H-18  
APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000825420016-3

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 24570

with the corresponding chloranhydrides, or else by the interaction of these chloranhydrides with NH<sub>3</sub> solution in CHCl<sub>3</sub> at 0°, into the corresponding amides. All the cis-acids were recrystallized from C<sub>6</sub>H<sub>6</sub> + petroleum ether, all the trans-acids from petroleum ether. The following arylcyclopropane acids were obtained (given below are R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, yield in percent of the isomeric acids, melting point in °C of trans- and cis-isomers, boiling point in °C/mm of chloranhydrides of cis- and trans- acids): H, H, H VIII, 59, 104, 92, -, -, (melting points of amides cis-VIII

Card : 8/12

KOURIM, P.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation:

Source: Prague, Collection of Czechoslovak Chemical Communications,  
Vol 26, No 10, October 1961, pp 2511-2518

Data: "Determination of the Products of the Oxidation of  
Methylcyclohexane with the Oxide of Hexavalent Chromium."

Authors:

/ KOURIM, P. Institute for Nuclear Research, Czechoslovak Academy of  
Sciences (Institut fuer Kernforschung, Tschechoslowakische  
Akademie der Wissenschaften), Prague

TYKVA, R. Institute of Organic Chemistry and Biochemistry, Czechoslovak  
Academy of Sciences (Institut fuer organische Chemie und Biochemie),  
Prague

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CIA-RDP86-00513R000825420016-3

21(3,4)

PHASE I BOOK EXPLOITATION

CZECH/2404

Habanec, V., Doctor; J. Havelka, Engineer; Zd. Hlasivec,  
Doctor of Medicine; Zb. Hrdlička, Engineer; I. Chudáček  
(Graduate in Physics); V. Kourím, Engineer; J. Kuba,  
Doctor of Natural Sciences; V. Myslivec, Professor; Jan  
Túma, Engineer; and M. Voršíšek (Graduate in Physics)

Atom a Jaderná technika (The Atom and Nuclear Engineering)  
Praha, Naše vojsko, 1957. 290 p. (Series: Universita  
vojáka) 4,000 copies printed.

Reviewers: Bittner, Engineer; Drška, Engineer; Hrdlička,  
Engineer; Kulka, Engineer; Spurný, Doctor; and Simáně,  
Engineer; Ed.: Stanislav Voboril.

PURPOSE: The book is intended for the general reader.

COVERAGE: The book outlines the principles and operation of  
nuclear power plants and the use of radioisotopes. The intro-  
ductory chapters cover the fundamentals of nuclear physics and  
radioactivity. Several subsequent chapters deal with reactor  
physics, types of reactors, their engineering, control and

## The Atom and Nuclear Engineering

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## The Atom and Nuclear Engineering

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| <br>XIII. Thermonuclear Reactions (M. Kulka, Engineer)  |     |
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Card 11/12

KOURIM, V.

Distr: 4E3c 2 oys/4E2b(v)

Processing of fission products from a nuclear reactor.  
Václav Koutník (Czech. Acad. Sci., Prague). *Jaderná  
energie* 3, 47-50 (1957).—The compn. of the fission product  
mixt. after various times of reactor operation and various  
times of cooling is given. Since in old mixts. (after 3 yrs.)  
 $\text{Sr}^{90}$  +  $\text{Y}^{90}$  and  $\text{Cs}^{137}$  +  $\text{Ba}^{137}$  are the main sources of radia-  
tion, their removal prior to storage would simplify the dis-  
posal problem, and provide valuable radiation sources for  
industry. Data for the 1st Soviet nuclear power reactor and  
for the proposed Czechoslovak research reactor are con-  
sidered.  
H. Neumannbe

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CIA-RDP86-00513R000825420016-3"

CZECHOSLOVAKIA/Chemical Technology. Chemical Products. Chemical and H-7  
Technological Problems of the Nuclear Industry.

Abs Jour : Ref Zhur - Khimiya, 1958, No 22, 74505

Author : Kourim V., Konecy C.

Inst : Not Given

Title : Decomposition of Nitric Acid with Formaldehyde

Orig Pub : Chem. listy, 1957, 51, No 7, 1376-1377

Abstract : It is necessary to remove an excess of  $\text{HNO}_3$  formed in the treatment of solution containing products of decomposition obtained from nuclear fuels combustion. A method of decomposing an excess of  $\text{HNO}_3$  is proposed which involves the following reactions:  $\text{HNO}_3 + \text{CH}_2\text{O} = 4\text{NO}_2 + \text{CO}_2 + 3\text{H}_2\text{O}$  and  $4\text{HNO}_3 + 3\text{CH}_2\text{O} = 4\text{NO} + 3\text{CO}_2 + 5\text{H}_2\text{O}$ . Operating conditions and the reaction rates were determined. A laboratory unit for the continuous reduction of the above solution was developed. Reduction of  $\text{HNO}_3$  is possible in the concentration range of 3-15%. The rate of reaction may be increased by utilizing heat evolved when reaction is conducted on the continuous

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CIA-RDP86-00513R000825420016-3"

KOURIM, V

1-1-12

Radiochemical methods and equipment. Vaclav Kourim  
(Vlasty Jaderne fys., Prague). Chemie (Prague) 19, 030-0  
(1988).—Review with 23 references on lab. equipment,  
safety measures, radiation dosimetry, and analytical ap-  
plications of radioisotopes (isotopic diln.; radiometric titra-  
tion; radiometric correction; activation analysis; neutron  
absorption, and reflection method). I. M. Hale

3

2-1-12

KOURIM, VACLAV

81c Q

**APPROVED FOR RELEASE: 08/23/2000**

CIA-RDP86-00513R000825420016-3"

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IPG  
2

Distr: 4E2c/4E2d 14

Sorption of radioactive isotopes on precipitates. I. Co-precipitation of cesium with hydroxides and polyuranates. Václav Kouplík and Josef Krtíč (Ústav jaderné fyz., Prague). Čas. vědy 52, 1435 (1983).—Fe(OH)<sub>n</sub> and Al(OH)<sub>n</sub> retain at pH 8–9 by occlusion, adsorption, and chemisorption  $10^{-4}$ – $10^{-5}$  g. atom Cs per 1 g. atom Fe or Al. Cs is desorbed from the hydroxides by washing, preferably with dil. NH<sub>4</sub>NO<sub>3</sub> soln. which has a stabilizing effect on the ppt. Under analogous conditions the ppt. of NH<sub>4</sub> polyuranate retains  $10^{-4}$ – $10^{-5}$  g. atom Cs per 1 g. atom U. The compn. of the polyuranate is Cs<sub>2</sub>O·(UO<sub>2</sub>)<sub>4</sub>· $n$ H<sub>2</sub>O at pH 8.5 and Cs<sub>2</sub>O·(UO<sub>2</sub>)<sub>4</sub>· $n$ H<sub>2</sub>O at pH 9.1. Cs retained by chemisorption can be desorbed with solns. of NH<sub>4</sub> salts which replace Cs bound by the ppt. Cs can be quantitatively isolated from solns. contg. excess of Fe, Al, and U by pptg. the mixt. with NH<sub>4</sub>OH and washing the ppt. with NH<sub>4</sub>NO<sub>3</sub> soln.

L. J. Urbánek

*[Signature]*

LAVRUKHINA, A.K.; KOURZHIM, V.; FILATOVA, L.V.

Determination of actinium in natural objects from the daughter  
product Fr<sup>223</sup>. Radiokhimiia 1 no.2:204-207 '59.  
(MIRA 12:8)  
(Actinium--Analysis) (Francium--Isotopes)

KUDLA, V.; KUDLA, J.; KOLECKA, C.

"Reaction of 2,2',4,4',6,6'-hexanitrodiethoxyamine (Bipicrylamine) with Cs,  
Rb, K, and Li." In German. p. 1-74.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech.,  
Vol. 24, No. 5, May 1959

Monthly List of East European Accessions (EEAI), IC, Vol. 8, No. 6, Sept. 59

Unclassified

S/075/60/015/003/010/033/XX  
B005/B066

AUTHORS: Kourim, V. and Lavrukhina, A. K.

TITLE: Investigation of the Alkali Metal Precipitation With Some Trihetero Acids

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 3,  
pp. 272 - 276

TEXT: The authors of the present paper studied the precipitation of the alkali metals potassium, rubidium, and cesium with the trihetero acids silicotungstovanadic acid ( $H_8[Si(W_2O_7)_5V_2O_6] \cdot nH_2O$ ), phosphotungstovanadic acid ( $H_7[P(W_2O_7)_5V_2O_6] \cdot nH_2O$ ), and phosphomolybdo vanadic acid ( $H_7[P(Mo_2O_7)_5V_2O_6] \cdot nH_2O$ ) which had been thoroughly investigated by A. I. Kokorin (Ref.13). For simplification purposes these 3 acids are further denoted by HSiWV, HPWV, and HPMoV. Trihetero acids have so far been used only for the photometric determination of the hetero elements contained in them (phosphorus, vanadium, molybdenum) (Refs.10-12). With the various alkali metals they form salts with strongly different solubility.  
Card 1/5

Investigation of the Alkali Metal Precipitation With Some Trihetero Acids

S/075/60/015/003/010/033/XX  
B005/B066

The authors investigated by means of the radioactive isotopes K<sup>42</sup>, Cs<sup>134</sup>, and Rb<sup>86</sup> the dependence of the degree of precipitation of potassium, rubidium, and cesium by the above trihetero acids on the concentration of hydrochloric acid and nitric acid in the solution. They also studied the co-precipitation of traces of rubidium and cesium with the free trihetero acids. The method of the investigations was the following: In a centrifugal cuvette whose interior surface had been made water-repellent by means of chlorosilane, a solution of the alkali metal chloride or -nitrate containing  $1.04 \cdot 10^{-5}$  g-atoms of the metal, was combined with a solution of the corresponding radioactive indicator ( $2 \cdot 10^{-6}$  g/ml for rubidium and cesium, 5 mg/ml for potassium). The solution of the trihetero acid ( $1.17 \cdot 10^{-5}$  g/ml) and hydrochloric or nitric acid were then added, the concentration of which was varied in the individual experiments from 0.5 - 8.5 M. The mixture was heated up to 50°C for 5 minutes and then cooled down to 1°C with stirring. The resulting precipitate was separated by centrifuging. The salts which were soluble more readily were filtered only after 12 hours, to warrant complete precipitation. The radioactivity

Card 2/5

Investigation of the Alkali Metal Precipitation With Some Trihetero Acids

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B005/B066

of the filtrate was measured after evaporation of an aliquot by means of a standard counter of the TM-20 (TM-20) type with a BK-2 (BK-2) device. In cases in which the filtrate showed a high activity, also the activity of the precipitate dissolved in 0.1 M NaOH was determined. The results of the investigations are presented in 2 attached figures and are discussed in detail. The following conclusions were drawn: cesium is nearly quantitatively precipitated from 8.5 M nitric acid solution by HPWV and HSiWV, whereas rubidium does practically not precipitate under the same conditions. The formation of isomorphic mixed salts of rubidium and cesium, however, complicates in this case the separation of both elements. A comparison of the precipitation degree of potassium, rubidium, and cesium with HPWV and phosphotungstic acid in nitric acid solution discloses that the presence of vanadium in the anion of the heteropoly acid increases the solubility of the alkali salts, particularly that of the potassium and rubidium salt. On precipitation of the free trihetero acids always considerable quantities of rubidium and cesium co-precipitate; the extent of co-precipitation depends on the concentration of the alkali metal in the solution and on the composition of the trihetero acid. In this way very small quantities of rubidium and cesium in nitric acid solution may be ✓

Card 3/5

Investigation of the Alkali Metal Precipitation With Some Trihetero Acids

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B005/B066

separated by means of phosphotungstovanadic acid, since cesium is nearly completely co-precipitated by HPWV, whereas rubidium is but little co-precipitated. After one reprecipitation of HPWV the separation is nearly complete. The authors thank A. I. Kokorin for having supplied the trihetero acids. There are 2 figures, 3 tables, and 13 references: 8 Soviet, 2 German, 1 British, and 2 US.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V.I.Vernadskiy AS USSR, Moscow). Institut yadernoy fiziki Chekhoslovatskoy Akademii nauk, Praga (Institute of Nuclear Physics of the Czechoslovakian Academy of Sciences, Prague)

SUBMITTED: February 7, 1959

Legend to Fig. 1: Dependence of the degree of precipitation of rubidium (1<sup>6</sup>, 2<sup>6</sup>, 3<sup>6</sup>) and cesium (1a, 2a, 3a) with the trihetero acids on the nitric acid concentration 1 - HPWV, 2 - HSiWV, 3 - HPMoV

Card 4/5

S/075/60/015/003/010/033/xx  
B005/B066

Legend to Fig.2: Dependence of the degree of precipitation of rubidium (1<sup>b</sup>, 2<sup>b</sup>, 3<sup>b</sup>) and cesium (1a, 2a, 3a) with the trihetero acids on the hydrochloric acid concentration 1 - H<sub>3</sub>PWV, 2 - H<sub>3</sub>SiWV, 3 - H<sub>3</sub>PMoV

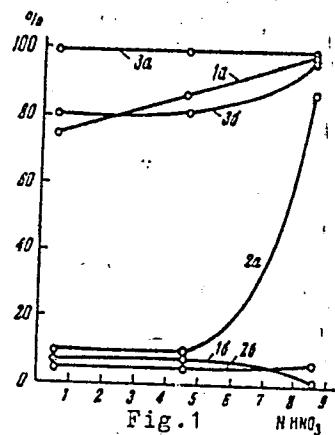


Fig.1

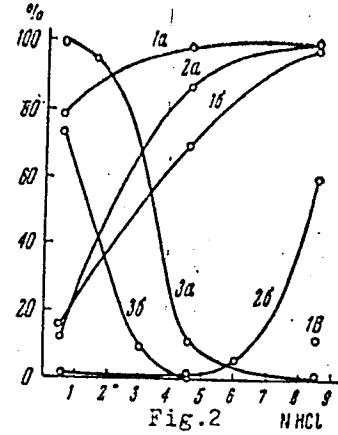


Fig.2

Card 5/5

KOURIM, V

16  
Sorption of radioactive isotopes on precipitates. II.  
Sorption of strontium and yttrium on iron and aluminum hydroxides. Z. Kolářík and V. Koutním (Ústav pro jaderný výzkum, Čsl. akad. věd, Prague). Collection Czech. Chem. Commun. 25, 1000-7 (1960) (in German); cf. CA 53, 11939a.—By radiometric measurements sorption of Sr<sup>89</sup> and Y<sup>89</sup> on Fe(OH)<sub>3</sub> and Al(OH)<sub>3</sub> was found to depend on pH, NH<sub>4</sub><sup>+</sup> concn., temp., and manner of mixing the components during the pptn. More than 90% Sr is adsorbed on Fe(OH)<sub>3</sub> at pH 9.8 when more than 30 g. atoms Fe is used per 1 g. atom Sr. At pH 7.1-9.8 the adsorption of Sr drops with increasing pH, whereas that of Y is independent and almost complete. The sorption of Sr is caused by the exchange of Sr ions for H ions on the Fe(OH)<sub>3</sub>. Al(OH)<sub>3</sub> holds the Sr ions more weakly than does Fe(OH)<sub>3</sub>. Elution of Y from the ppt. of both hydroxides with H<sub>2</sub>O or NH<sub>4</sub><sup>+</sup> solns. is negligible, whereas Sr is eluted markedly by NH<sub>4</sub> salt solns. The sorption of Y is independent and that of Sr dependent on temp. The sorption of Sr is greatest when both hydroxides are pptd. simultaneously from a Sr-contg. soln.

M. Hudlický

3

Distr: 452c(m)

14  
The sorption of radioactive fission products on precipitates. III.  
Coccpulation of strontium and yttrium with the polyuranate  
precipitate. V. V. Koval' and V. V. Kosykh. (Ussr).  
Zemlye vysokomol. C34(1), Prague, Czechoslovakia,  
Chem. Chem., 17, 244-6 (1960) (in German); cf. CA 54,  
128104. — The coppt. of variable amounts of Sr with the poly-  
uranate was investigated radiometrically in dependence on  
the concn. of the H<sup>+</sup>, Sr<sup>2+</sup>, NH<sub>4</sub><sup>+</sup>, Na<sup>+</sup>, and K<sup>+</sup> ions. The  
coppt. of traces of Y was studied in dependence on the H<sup>+</sup>  
concn. The Sr is copptd. with the polyuranate ppt. In the  
form of Sr polyuranate their coppt. depends on the conditions in the soln. and the ratio Sr:U in the ppt. approaches  
the max. value 0.5 at high pH values. — E. Brügel

6  
452c(m)

KOLARIK, Z.; KOURIM, V.

Sorption of radioactive isotopes in precipitates. Part 4: Sorption  
of yttrium in iron (III) hydroxide. Coll Cz Chem 26 no.4:1082-1091  
Ap '61.

I. Institut fur Kernforschung, Tschechoslowakische Akademie der  
Wissenschaften, Rez bei Prag.

(Radioisotopes) (Yttrium) (Iron hydroxides)

KOURIN, Vaclav

Investigation of properties of alkali salts of heteropolyacids  
and their use in reprocessing the fission products from nuclear  
fuel. Jaderna energie 8 no.2:58-59 F '62

MALY, Jaromir; MACHACEK, Vojtech; KUTZENDORFER, Jaroslav; KOURIM, Vaclav;  
JERABEK, Vaclav.

Preparation of metallic uranium. Jaderna energie 4 no. 1: 9-18 January 58

Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

KOURIM, Vaclav, inz.

Processing of fission waste from nuclear reactors. Jaderna energie  
3 no.2:47-50 F '57.

1. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

MALY, Jaromir; MACHACEK, Vojtech; KUTZENDAHLER, Jaroslav;  
KOURIM, Vaclav; JERABEK, Vaclav

Preparation of metallic uranium. Jaderna energie 4 no.1:9-18  
Ja '58.

1. Ustav jaderne fysiky, Ceskoslovenska akademie ved, Praha.

Z/038/63/000/004/004/005  
D406/D391

AUTHORS: Eder, Josef, and Kourím, Václav

TITLE: Precipitation of uranium fission products and separation of cesium

PERIODICAL: Jaderná energie, no. 4, 1965, 123

TEXT: The ÚJV (Institute of Nuclear Research) Paper No. 676 deals with a precipitation method which permits, in one operation, the concentration of all radioactive fission products in a way that cesium-137 can be separated from the concentrate. The fission products are precipitated as hydroxides, carbonates, and dipicryl- amines. The sediment contains over 99% of the Cs, Sr, Y, and Zr, and over 97% of the Ru. From this precipitate, the Cs<sup>137</sup> dipicrylate is extracted to 98-100% with acetone.

Card 1/1

KOURIM, Vaclav

Composition of heteropolyacid etherates and salts.  
Jaderna energie 9 no.4:125 Ap '63.

KRTIL, Josef; KOURIL, Vaclav; KOLARIK, Zdenek

Using ammonium salts of heteropolyacids for Cs137 isolation.  
Jaderna energie 9 no.10:328 O '63.

l. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez  
u Prahy.

KOURIM, Vaclav

Processing and isolation of products of nuclear fuel  
fission. Jaderna energie 9 no.9:294 S'63.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved,  
Rez u Prahy.

EDER, J.; KOURIM, V.

Precipitation of uranium fission products and cesium  
isolation. Coll Cz Chem 28 no.2:530-534 F '63.

1. Institut fur experimentelle Botanik, Tschechoslowakische  
Akademie der Wissenschaften, Prag und Institut fur  
Kernforschung, Tschechoslowakische Akademie der  
Wissenschaften, Rez bei Prag.

KRTIL, Josef; KOLARIK, Zdenek; KOURIM, Vaclav

Isolation of long-lasting fission products from radioactive waste. Pt. 1. Jaderna energie 10 no.1:19-20 Ja'64.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez.

KRTIL, Josef; KOURIM, Vaclav; ZEMANOVA, Jaroslava; PANKOVA, Helena

Separation of Zr<sup>95</sup>-Nb<sup>95</sup> from the fission product solution  
by sorption on silica gel. Jaderna energie 10 no. 2:47-51  
F '64.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved,  
Rez u Prahy.

KOURIM, Vaclav; RAIS, Jiri; MILLION, Borivoj

Exchange properties of complex cyanides. Pt. 1. Jaderna energie  
10 no. 3:88 Mr '64.

1. Nuclear Research Institute, Czechoslovak Academy of Sciences,  
Rez.

KOURIM, Vaclav

Survey of processes of fission product recovery. Jaderna  
energie 10 no. 5:173 My '64.

I. Institute of Nuclear Research, Czechoslovak academy of  
Sciences, Rez.

KOURIM, Václav AIS, Jiří; ST. JÍSKA, Jiří

Exchange properties of complex cyanides. Pt.3. Jaderná energie  
10 no.7:255 Jl'64

1. Institute of Nuclear Research, Rez.

L 18492-66 ENT(m)/EMA(h)

ACC/NR: AP6010235

SOURCE CODE: CZ/0038/65/000/005/0179/0179

AUTHOR: Kourim, Vaclav—Kourzhim, V.; Million, Borivoj

ORG: Institute for Nuclear Research, CSAV, Rez (Ustav jaderneho vyzkumu CSAV) 74  
JADERNY

TITLE: Separation of cesium 137 from uranium fission products by means of zinc ferrocyanide 79

SOURCE: Jaderna energie, no. 5, 1965, 179

TOPIC TAGS: cesium, ion exchange, chromatography, fission product, uranium, cyanide, alkali metal, chemical separation

ABSTRACT: The group of complex cyanides forms inorganic ion exchangers with a high selectivity for ions of alkali metal elements. For reversible exchange of Cs ions zinc ferrocyanide is very suitable, because of its chemical and mechanical properties. Chromatographic separation of Cs from mixtures containing fission products of medium and long half-life is described, such as Sr, Ce, Ru, and the couple Zr-Nb. [JPRS]

SUB CODE: 07, 18 / SUBM DATE: none

Card 1/1 xc.

UDC: 546.36.02: 621.039.59: 621.039.735

KOURIMSKY, Jan, inz.

Experiences in building and designing roads. Inz stavby 12  
no.11:487-489 N '64.

1. Dopravní stavby National Enterprise, Olomouc.

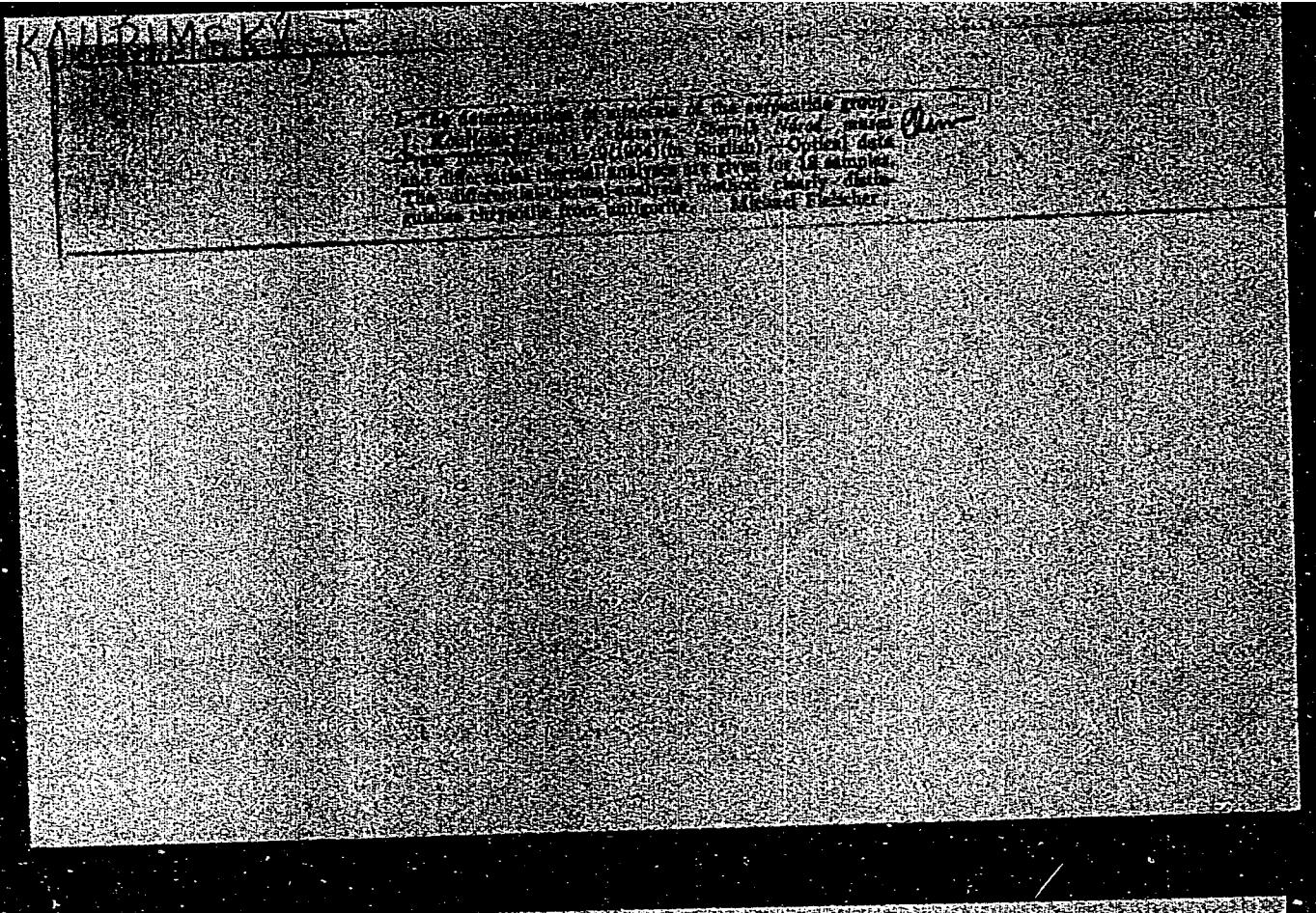
KOUČIMSKÝ,

*G.P.*  
①

The occurrence of curisite in Czechoslovakia and its identity with idrialine. K. Tucek and J. Koučimský (Nati. Museum, Prague). *Reptory Zem.* Abt. IVa, No. 3, 1-18 (1933) (English summary).—(A yellow-green orth. mineral found in fissures in andesite at Ondřejov, Moravia, had sp.gr. 1.226 and  $\alpha$ ,  $\beta$ ,  $\gamma$   $1.657 \pm 0.001$ ,  $1.738 \pm 0.001$ . The optical data suggest monoclinic symmetry. X-ray powder data show the identity of this material with curisite (Wright and Allen, C.I. 24, 6269) from California and idrialine from Idria, Yugoslavia.) Michael Pötscher

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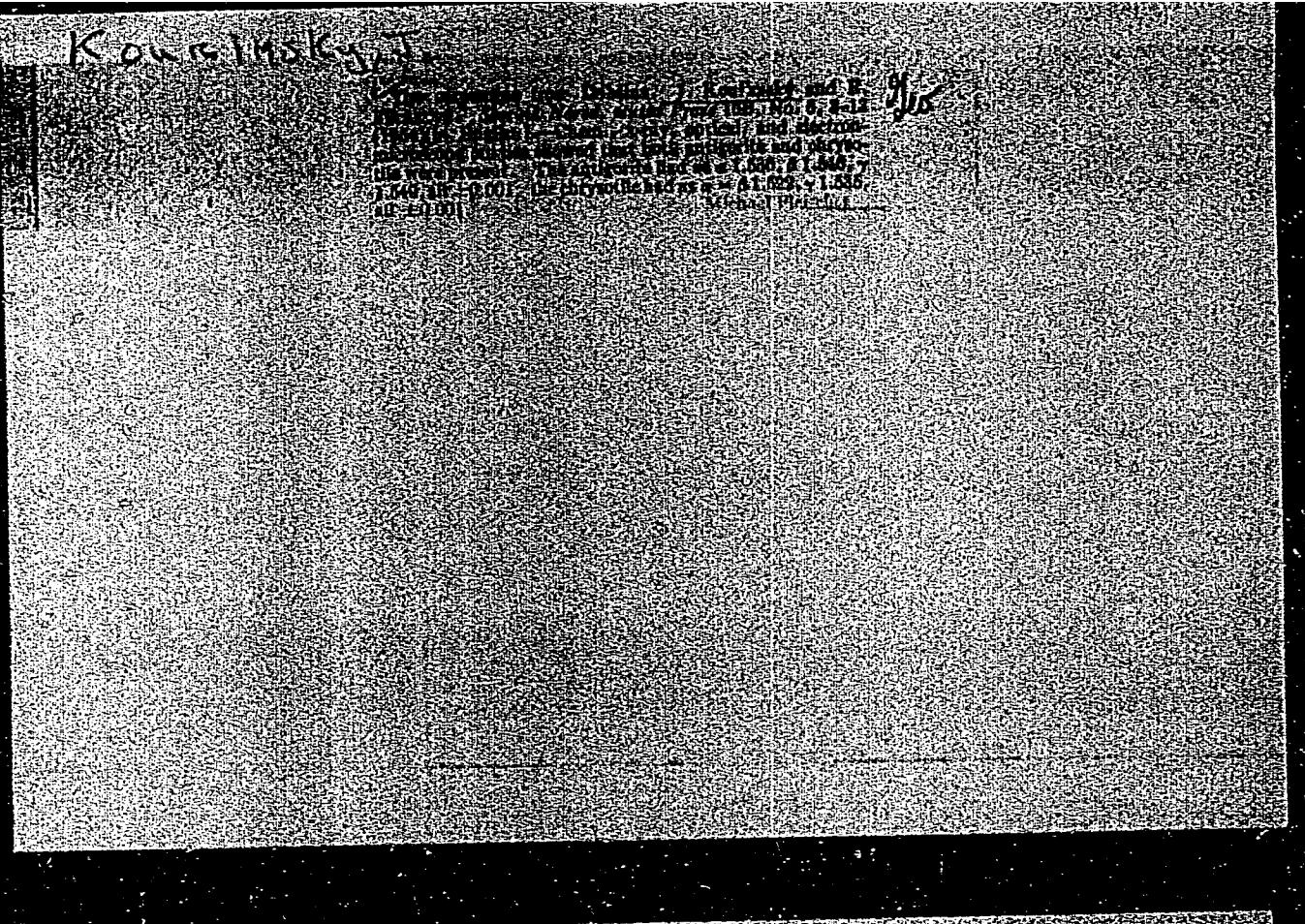


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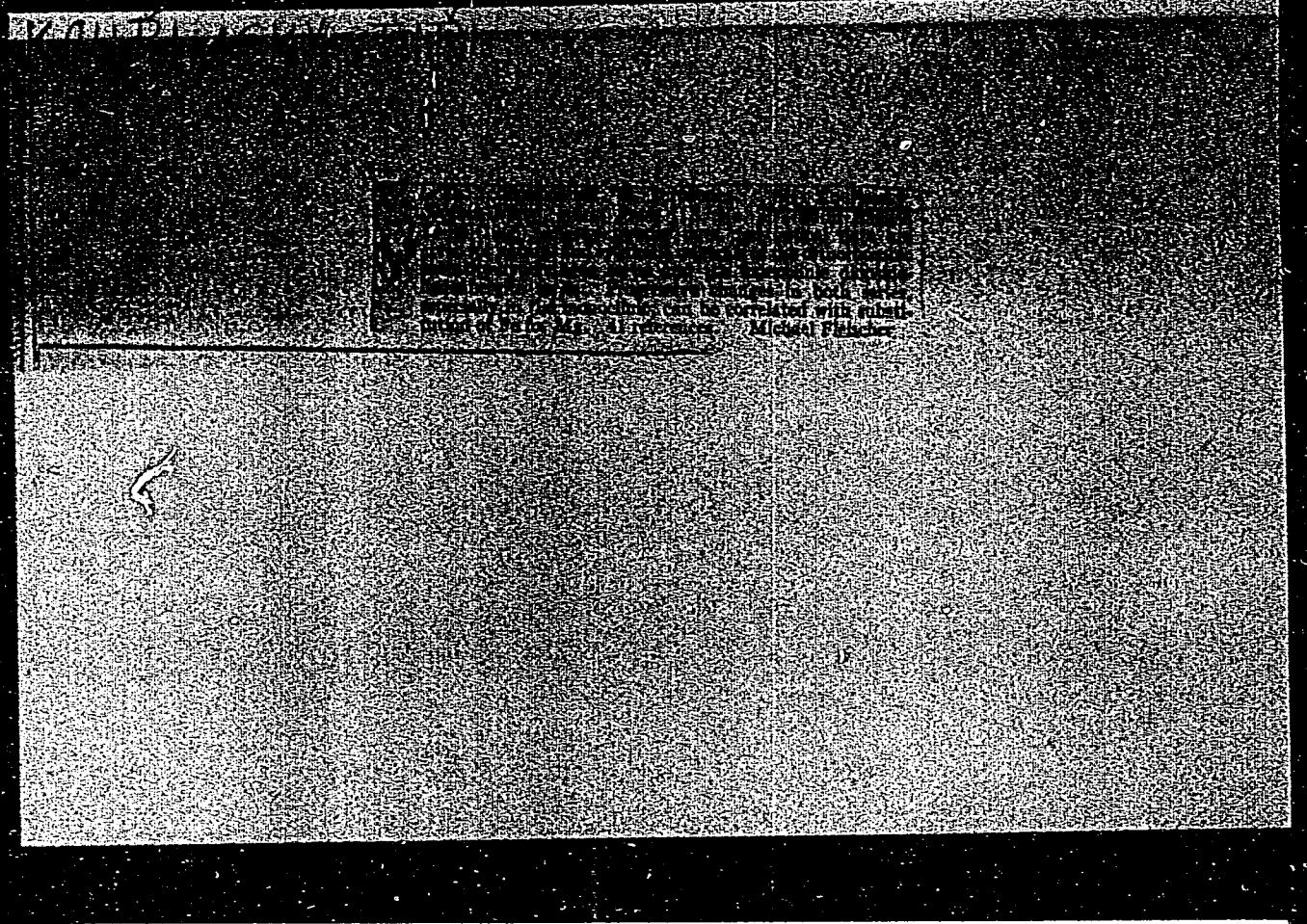
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KOURIMSKY, J.  
                

"Contribution to the identification of manganese pyroxenes."

p. 125 (Universitas Carolina. Geologica) Vol. 2, no. 2, 1956  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

KOURSKY, Jiri

Nerosty. 1/dil/ Nerosty ceskych zemi. (minerals. Vol. 1. Minerals in Bohemia and Moravia. 1st ed. illus., indexes) Prague, Orbis, 1957. 168 p.

A manual offering basic information on mineralogy. The subject matter is divided into two parts. The first volume contains an introduction to the general mineralogy, a chapter on the origin and occurrence of minerals in Bohemia and Moravia, and the atlas of the Czech minerals in color. There is a valuable chapter on the study of the mineralogical literature.

Bibliograficky katalog, CSR, Ceske knihy, No. 37. 22 Oct 57. p. 203.

KOURIMSKY, J.

"Comparison of the results of X-ray and optical methods in the determination of pyroxenes."

p. 333 (Silikaty) Vol. 1, no. 4, 1957  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

KOURIMSKY, Jiry (Praga)

Precious stones in the service of man; exhibition in the National  
Museum in Prague, Czechoslovakia. Wszechswiat no. 7/8:180-186  
Jl-Ag '63.

KOURIMSKY, Jiri

Activity of the Department of Mineralogy of the National  
Museum in the first half of 1964. Geol pruzkum 6 no.10:319  
O '64.

KUPERMAN, P.I.; GRYAZNOV, N.S.; MOCHALOV, V.V.; FROLOV, V.V.; MUSTAFIN, F.A.; PUSHKASH, I.I.; SLAVGORODSKIY, M.V.; LAZAREV, B.L.; BORISOV, V.I.; Prinimali uchastiye: CHERKASOV, N.Kh.; ZABRODSKIY, M.P.; RYTCHENKO, A.I.; RUTKOVSKAYA, Ye.N.; SAITBURGANOVA, N.I.; SHTAGER, A.A.; SHISHLOVA, T.I.; BUDOL', Z.P.; MEN'SHIKOVA, R.I.; GORELOV, L.A.; AGARKOVA, M.M.; KOUROV, V.Ya.; KOGAN, L.A.; BEZDVERNYY, G.N.; POKROVSKIY, B.I.

Effect of the lengthening of the coking time on the coke quality and testing of coke in the blast furnace process. Koks i khim. no.9: 23-28 '63. (MIRA 16:9)

1. Vostochnyy uglekhimicheskiy institut (for Kuperman, Gryaznov, Mochalov, Kogan, Bezvernyy, Pokrovskiy).
2. Ural'skiy institut chernykh metallov (for Frolov).
3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Mustafin, Pushkash, Slavgorodskiy, Lazarev, Cherkasov, Zabrodskiy, Rytchenko, Rutkovskaya, Saitburganova, Shtager, Shishlova, Budol', Men'shikova).
4. Koksokhimstantsiya (for Borisov, Gorelov, Agarkova, Kourov).  
(Coke--Testing)

KOURSKY, J.

5 2100

29014

S/020/61/140/004/015/023  
B106/B110

AUTHORS: Kourzhim, V., Lavrukhina, A. K., and Rodin, S. S.

TITLE: Use of ammonium phosphotungstate for the separation of rubidium and cesium by ion exchange

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no 4, 1961, 832-834

TEXT: J. van R. Smith and co-workers (Ref. 10, see below) recently published a paper on the separation of alkali metals on an exchanger column with ammonium phosphomolybdate. J. Krtík and V. Kourím (Ref. 11, see below) showed that the chemical stability of ammonium phosphotungstate in neutral and highly acid solution was higher than that of ammonium phosphomolybdate, and that the sorption capacity sorb of the former salt was twice that of the latter. On the basis of these data, the authors studied the separation of the heavy alkali metals rubidium and cesium on a column filled with ammonium phosphotungstate. To reduce the high hydraulic resistance of fine-crystalline ammonium phosphotungstate, a coarse packing had to be added. A fine-fibered tremolite asbestos of the amphibolic type was used for this purpose. Silica gel, glass wool.

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Use of ammonium phosphotungstate ...

cellulose, and cork crumbs were less suitable. The column used had an inside diameter of 5 mm, and was filled with a suspension of asbestos in 1 M  $\text{NH}_4\text{NO}_3$  solution up to a height of about 30 mm. A 0.2 M solution of phosphotungstic acid, and then a 0.3 M  $\text{NH}_4\text{NO}_3$  solution, were passed through this column. 0.1 ml of a 1 M  $\text{HNO}_3$  solution was then introduced which contained  $10^{-4}$  M rubidium (radiolabeled with  $\text{Rb}^{86}$ ) and  $10^{-6}$  M cesium (radiolabeled with  $\text{Cs}^{134}$ ). The absorption of  $\beta$ -radiation by an aluminum filter was used to identify the activities since the energies of  $\beta$ -particles of  $\text{Rb}^{86}$  (1.79 Mev) and  $\text{Cs}^{134}$  (0.65 Mev) are highly different. A filter of a thickness of 204 mg/cm<sup>2</sup> was used. The radioactivity of fractions obtained after separation on the column was measured in an end-window counter of the MCT-17 (MST-17) type with and without aluminum filter. The relative quantities of the two active isotopes in the fractions were calculated from the following equations:

$$\frac{A_{\text{Rb}}}{A_{\text{Al}}} = 6.82 \cdot \frac{A_{\text{Al}}}{A_{\text{tot}}} - 0.31 \cdot \frac{A_{\text{tot}}}{A_{\text{Al}}}; \quad \frac{A_{\text{Cs}}}{A_{\text{Al}}} = 1.31 \cdot \frac{A_{\text{tot}}}{A_{\text{Al}}} - 6.82 \cdot \frac{A_{\text{Al}}}{A_{\text{tot}}}; \quad (A_{\text{Rb}}, A_{\text{Cs}} - \text{activities of } \text{Rb}^{86} \text{ and } \text{Cs}^{134}, \text{ respectively}; A_{\text{Al}} - \text{total activity when}$$

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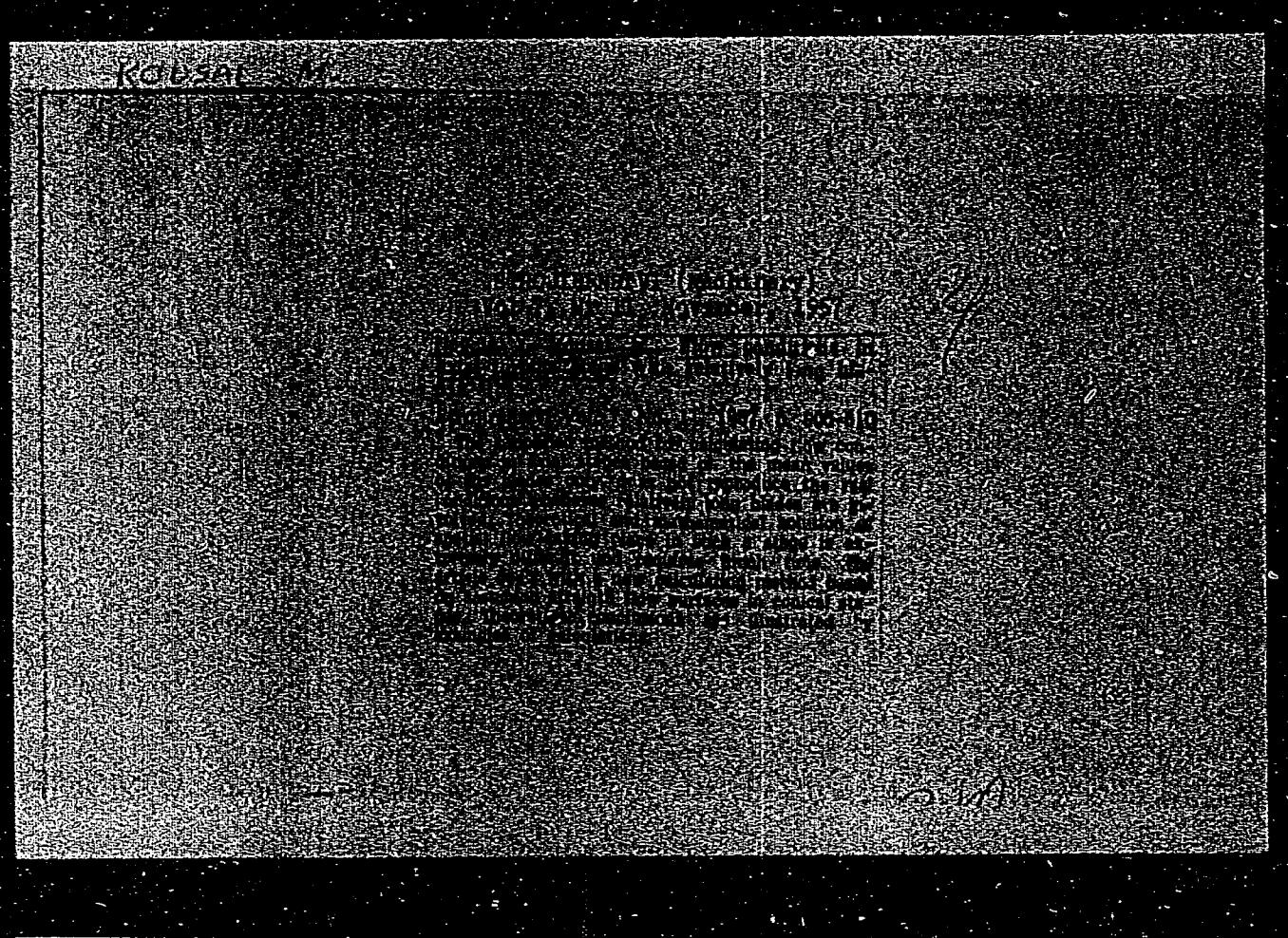
Use of ammonium phosphotungstate ...

measuring with filter;  $A_{\text{tot}}$  - total activity without filter). Rubidium was eluted from the column, with 1 M ammonium nitrate solution cesium with 6 M ammonium nitrate solution. Fig. 1 shows the resultant chromatogram. Rb and Cs can also be separated by ammonium silicomolybdate, but this salt is more soluble in  $\text{NH}_4\text{NO}_3$  solution than ammonium phosphotungstate, and is therefore, slowly eluted from the column. The chromatograms obtained with ammonium phosphomolybdate agree with data in Ref. 10 (see below). Ammonium silicotungstate cannot be applied to chromatographic separations because of its good solubility in ammonium nitrate solutions. The chromatographic separation method described may be valuable for the separation of highly active isotopes of rubidium and cesium since phosphotungstates are very stable to radiation. There are 1 figure and 16 references: 3 Soviet and 13 non-Soviet. The three most recent references to English-language publications read as follows: Ref. 10: J. van R. Smith, W. Robb, I. I. Jacobs, J. Inorg. and Nucl. Chem., 12, 104 (1960); Ref. 11: J. Krtil, V. Kouřim, J. Inorg. and Nucl. Chem., 12, 367 (1960); A. K. Lavrukchina, A. A. Poddnjakov, S. S. Rodin, Intern. J. of Appl. Rad. and Isotopes, 2, № 1-4, 34 (1960).

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KOUSAL, Milan, inz.; SLADEK, Vojtech, inz.

Natural gas combustion turbine PBZKQ ST 675-1. Energetika  
Cz ll no.4:177-179 Ap '61.

KOLISAL, M.

PHASE I BOOK EXPLOITATION

Z/6284

Jerie, Jan, ed., Engineer, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences

Základní problémy ve stavbě spalovacích turbin (Basic Problems in the Construction of Gas Turbines [collection of articles]). Prague, Nakl. ČAV, 1962. 627 p. 1600 copies printed.

Sponsoring Agency: Československá akademie věd.

Ed. of Publishing House: Marie Moravcová; Tech. Ed.: František Konšický.

PURPOSE: The book is intended to familiarize turbine designers with recent developments in the design of gas turbines and to present some research results which may be helpful in designing more efficient turbines.

COVERAGE: The book comprises articles by leading Czechoslovak turbine experts on thermodynamic cycles, flow research in turbine components,

burning of fuel in combustion chambers, axial compressors, and characteristics of turbines manufactured in Czechoslovakia.

## Basic Problems in the Construction (Cont.)

Z/6284

- M. Hibš (State Research Institute for Heat Engineering, Prague). Aerodynamic Design of Inlet and Outlet Nozzles for Axial Compressors or Turbines 351
- V. Kmoníček and M. Hibš. The Results of Experimental and Theoretical Research on Annular Diffusors 371
- J. Hošek (Prague Machine Building Plant, Prague). A contribution to the Theory of Similitude in Fluid Flow 399
- M. Randa and J. Zikmund (V. I. Lenin Plant, Plzeň). Axial Compressors Produced by the V. I. Lenin Plant in Plzeň 433
- M. Kousal (Klement Gottwald First Brno Armament Plant, Brno). The Axial Compressor Built by the Klement Gottwald First Brno Armament Plant for the ST 675-1 Gas Turbine 445

Card 6/8

KOUSAL, P.

Kousal, P. Cloudless air pockets and flights over broken lines. p. 176.  
Flying for sport and agricultural youth. Tr. from the Russian. p. 177.  
KRIDLA VLASTI. Praha. No. 8, Apr. 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4,  
no. 10, Oct. 1955. Uncl.

Z/003/62/000/021/001/001  
D008/D102

AUTHOR: Kousal, Petr

TITLE: New success of the Otrokovice XZ-35

PERIODICAL: Krídla vlasti, no. 21, 1962, 616-618

TEXT: The XZ-35 helicopter with a M-332 engine, designed by Chief Designer, Engineer Jan Mikula and built by the Moravan plant in Otrokovice, is being further developed despite official cancellation in 1959 of this development program. It proved its good properties in a recent successful altitude record attempt in the category of 500-1,000 kg, performed by the test pilot of the Moravan plant, Vlastimil Berg. With a takeoff weight of 603 kg, the helicopter reached an altitude of 5,200 m above sea level, and was still climbing at a rate of 1 m/sec when the attempt had to be discontinued since the pilot's oxygen supply was exhausted. Also, a parachute jump was performed from the helicopter during which the helicopter showed no signs of instability. There are 6 figures.

Card 1/1

KLABOCH, L., inz.; DUFEK, Jaroslav, inz.; HAJEK, E., doc., inz.; REZNICEK, I., inz.; ROD, F., inz.; DRDA, J., inz.; MATOUSEK, B., inz.; KOUSAL, P., inz.; MANDA, V.; CAIS, O., inz.; NOVAK, S.; URBAN, S.; HANKE, M., inz.; VOKURKA, V., inz.; FOGL, J., inz.; HROMIR, M., inz.; SOLIN, J., prof., inz.; SLEZAK, A., inz.; TITLBACH, Z., inz.; DREXLER, J., inz.; HORNA, O., inz.; KUPEC, J., inz.

Discussion on tensioetry. Zpravodaj VZLU no.2:37-46, 69-80  
'62.

1. Vyzkumny a zkusebni letectky ustav (for Dufek, Reznicek, Manda, Cais, Drexler and Kupec). 2. Statni vyzkumny ustav tepelne techniky (for Klaboch, Rod, Drda, Matousek, Titlbach). 3. Ceske vysoke ucenti technicke (for Hajek, Solin). 4. Ustav pro vyzkum motorovych vozidel (for Hanke, Vokurka, Fogl, Hromir). 5. Vyzkumny ustav matematickych stroju (for Horna). 6. Moravan, n.p., Otrokovice (for Kousal). 7. Mikrotechna, Holesovice (for Novak), 8. Zavody V.I.Lenina (for Urban). 9. Svermovy zavody, Vyzkumny ustav (for Slezak).

DOSTAL', Valentin Georgiyevich; KOUSH, A.S., red.; KIMMEL', L.S., red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Forests of the Ob-Irtysh Basin and their industrial utilization]  
Lesa Ob'-Irtyshskogo basseina i ikh promyshlennaia ekspluatatsiia.  
Moskva, Goslesbumizdat, 1961. 107 p. (MIRA 14:6)  
(Ob Valley--Forests and forestry) (Irtysh Valley--Forests and forestry)

KOUT, J.; KUKLA, J.

Methods of prospecting for kaolin deposits. p. 433. (STAVIVO, Vol. 34,  
No. 12, Dec 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

L 31670-66 ERG (1)  
ACC NR: AP60225

SOURCE CODE: CZ/031/65/014/002/0121/0124

16  
B

AUTHOR: Kout, J.; Cech, B.

ORG: AZNP, Hradec Králové

TITLE: Mechanized equipment in bodywork presses

SOURCE: Strojírenství výroba, v. 14, no. 2, 1966, 121-124

TOPIC TAGS: motor vehicles, motor vehicle/S-1000-MB motor vehicle

ABSTRACT: The article reports on considerable mechanization at the AZNP in the production of special S-1000-MB motor vehicles. Diagrams are presented. It is reported that the operations are paying for themselves, handling time is at a minimum and the presses are being used at 70% capacity.

Orig. art. has: 8 figures. [JPRS]

SUB CODE: 13/ SUBM DATE: none/

Card 1/1 (C)

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053.7

KOUT, J.; CECH, B.

"Cermets. Pt. 1. p. 192."

SILIKATY. Praha, Czechoslovakia. Vol. 3, no. 2, 1959.

MATENA, Stepan, prof., inz., dr., doktor technickych ved; KOUT, Ladislav, inz.

Construction of the first 360/220 V network system in Prague and  
starting its operation. El tech obzor 51 no.4:145-151 Ap '62.

1. Ceske vysoka uzeni technicke (for Matena). 2. RPR (for Kout)

KOUT, M.

KOUT, M. Some remarks on quality and guarantee. (To be contd.) p. 375

Vol. 6, No. 19, Oct. 1956  
MERNÍKÁŘSKÉ ZEMĚDĚLSTVÍ  
AGRICULTURE  
Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957.

KOUT, M.

KOUT, M. The supply of spare parts will be improved in 1957. p. 25.

Vol. 7, no. 2, Jan. 1957  
MACHANISACE ZEMEDELSTVI  
AGRICULTURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

KOUT, M.; KYSELOVA, V.

Apropos of the demonstration of the group specific properties AB, MN and Rh in leukocytes with the absorption test. Bratisl.  
lek. listy 44 no.10: 604-611 '64

1. Ustav hematologie a krevni transfuze v Praze (reditel: prof.  
MUDr. J. Horejsi, Dr.Sc.)

KOUT, MIROSLAV, DR.

HERZOG, Pavel, Dr.; KOUT, Miroslav, Dr.

Serological experiences with hemolytic disease of newborn. Cesk.  
pediat. 12 no.7:626-629 5 July 57.

1. Ustav hematologie a krevni transfuse v Praze, reditel Dr. Josef Kidery.  
(ERYTHROBLASTOSIS, FETAL, prev. & control  
prenatal blood tests (Cz))

KOUT, MIROSLAV.

KOUT, Miroslav, Dr.

Microscopic slide precipitation test of maternal milk. Cesk. pediat. 12  
no.11:1019-1021 5 Nov 57.

1. Ustav hematologie a krevni transfuse v Praze, reditel Dr J. Kidery.

(MILK, HUMAN)

microscopic slide precipitation test of maternal milk  
with cow's milk additive (Cz))